

## **511 Concrete Pumping Contractors Quality Management Plan**

### **511.1 Introduction**

511.1.1 The purpose of the Quality Management Plan for Concrete Pumping Contractors (CPC) is to establish the procedures for becoming pre-qualified as a concrete pumping Contractor. The Management Plan is to assure the Utah Department of Transportation (UDOT) that the quality of concrete on UDOT projects is not compromised by the equipment and/or operators involved in the conveying process. Only pre-qualified CPC's will be accepted on UDOT projects.

### **511.2 Pre-qualifications for Concrete Pumping Contractors**

511.2.1 Applicants shall submit to the Quality Assurance (QA) Engineer, a letter requesting that they be designated as a pre-qualified CPC. The letter shall include the following:

- A. Proof that the CPC is currently certified as a pre-qualified CPC by the QA Section as outlined in section 511.3 of this document.
- B. Name of the CPC's designated Quality Control Manager (QCM) who is responsible for the coordination and compliance with company Quality Control (QC) policy.
- C. Signature of a representative having legal authority to bind the company.

511.2.2 The CPC agrees to:

- A. Submit proof that operators of concrete pumping equipment are certified in accordance with the requirements of the Concrete Pump Operators Certification Program sponsored by the American Concrete Pumping Association (ACPA).
- B. Submit proof that concrete pumping equipment is inspected and certified in accordance with guidelines and requirements of ACPA and/or the equipment manufacturers certification program.
- C. Make available to the QA Engineer, or representative, all records required by section 511.3 of this document when requested.

511.2.3 Notification of acceptance as a CPC will be made in writing by the QA Engineer.

511.2.4 Send all documentation and correspondence to the address listed below.

**Quality Assurance Section  
4501 South 2700 West  
Salt Lake City, Utah 84119  
Phone Number: 1-801-965-4560  
Fax: 1-801-965-3843**

### **511.3 Quality Assurance Section Qualification Program**

511.3.1 Acceptance as a Pre-qualified CPC:

- 511.3.1.1 Description: A pre-qualified CPC will adhere to the requirements set forth in section 511.3 of this document. Failure to meet these minimum requirements will result in the suspension of the pre-qualification status of the CPC. The CPC may be reinstated as a qualified CPC after a mandatory QA section review of the CPC's Quality Program.

## 511.3.2 CPC Quality Control (QC) Policies and Procedures:

- 511.3.2.1 Description: Provide adequate training to familiarize all pertinent personnel (operators and administrators) with the company's QC procedures and supply each employee with a copy of the company QC Policy Statement and QC Manual which includes, at a minimum, the equipment and personnel certification criteria set forth in this document. These individuals must be properly trained and thoroughly familiar with all required QC procedures.
- 511.3.2.2 Include in the QC Manual a document detailing the requirements and procedures for the certification of equipment and personnel.
- 511.3.2.3 *Commentary:* The ultimate success in achieving a quality product is heavily dependent upon the company's and employee's commitment to quality and the employee's understanding of the company's QC procedures.

## 511.3.3 Operator Certification Requirements:

- 511.3.3.1 All personnel engaged in the operation of concrete pumping equipment on UDOT projects must be certified through the ACPA Concrete Pump Operators Certification Program.
- 511.3.3.2 CPC shall maintain a list of all pump operators and their current certification status.
- 511.3.3.3 Responsible Person(s): QCM.

## 511.3.4 Equipment Certification Requirements:

- 511.3.4.1 QC Requirements:
  - A. Maintain certification of all concrete pumping equipment in accordance with ACPA and/or manufacturers guidelines and certification programs.
  - B. Any broken or malfunctioning equipment must be removed from service immediately and replaced with new or repaired/re-certified equipment.
  - C. QCM shall conduct **quarterly** inspections of all concrete pumps and peripheral equipment and document compliance with ACPA and/or manufacturers certifications guidelines.
- 511.3.4.2 Required Records:
  - A. Notation on inspection checklist documenting each piece of certified equipment and their corresponding certification dates.
  - B. Any documented deficiencies in the inspection checklist shall be accompanied by documentation verifying the efforts incorporated in bringing the equipment into compliance, and the corresponding dates.
  - C. Maintain a file of all current equipment certifications listed in section 511.3.4.1 of this document.
- 511.3.4.3 Responsible Person(s): QCM

## 511.3.5 UDOT QA Section Inspector Guidelines:

- 511.3.5.1 Pre-qualification Inspection: The UDOT QA Section inspector will make an inspection visit at the request of the CPC. At that time the inspector will check the CPC's operations in accordance with the requirements of this document. Upon completion of the inspection the QA Engineer will recommend one of the following:
  - A. **Certification** as a pre-qualified CPC.

- B. **Non-Compliance** as a pre-qualified CPC. The QA inspector will submit a written report to the CPC outlining all deficiencies observed during the inspection process. The CPC is required to address all deficiencies noted in the QA inspectors report, at which time the CPC may request another pre-qualification inspection.

511.3.5.2 Maintenance of Pre-qualification Status: The QA Section inspector will make a minimum of one inspection visit per year. At that time the inspector will check the CPC's records and operations in accordance with the requirements of this document. Upon completion of the inspection and records review the QA Engineer will recommend

511.3.5.3 Certification or Non-Compliance status as outlined in Section 511.3.5.1 of this document.

511.3.5.4 QA Section Inspector Check List:

- Examine the CPC's QC Policy Statement and Manual.
- Review the distribution of said statement and manual and its availability to employees.
- Examine and verify CPC's personnel certification records.
- Examine and verify CPC's equipment certification records.
- Interview the person(s) responsible for QC policies and procedures.

511.3.5.5 Responsible Person: QA Section Inspector.

511.3.6 UDOT Field Inspector Guidelines:

- Refer to the UDOT Highway Inspector's Manual, Chapter 7, for Concrete Pump Truck Inspection procedure.